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PATENT
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<u>Jeremy Waterman</u> Printed name of person mailing correspondence	<u>Jeremy Waterman</u> Signature of person mailing correspondence

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Meakin et al.	Confirmation No.:	3409
Serial No.:	10/591,741	Art Unit:	1614
Filed:	September 1, 2006	Examiner:	Not yet assigned
Customer No.:	21559		
Title:	Method of Proliferating Precursor Cells		

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INFORMATION DISCLOSURE STATEMENT

Dear Sir:

In accordance with the provisions of 37 CFR 1.56, Applicant hereby makes of record the references set out on the attached form PTO/SB/08B.

A copy of the non-patent literature documents are enclosed.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103, and Applicant reserves the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to

In re the application of:
Susan Oriole Meakin, et al.
For: Method of Proliferating Precursor Cells

- Page 2 -

establish otherwise. Moreover, Applicant does not represent that a reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended.

It is respectfully requested that the information be expressly considered by the Examiner and that the references be made of record and appear among the "References Cited" on any patent to issue therefrom.

The Patent Office is hereby authorized to charge any deficiency, or credit any overpayment in fees to deposit account no. 19-2548.

Respectfully submitted,



Susan M. Michaud, Ph.D.
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known			
		Application Number	10/591,741		
		Filing Date	September 1, 2006		
		First Named Inventor	Susan Oriole Meakin		
		Art Unit	not yet assigned		
		Examiner Name	not yet assigned		
Sheet	1	of	6	Attorney Docket Number	50217/005001

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	1.	MACDOUGALL, K. et al., "Developmental expression patterns of the signalling adapters FRS-2 and FRS-3 during early embryogenesis", Mechanisms of Development, (May 2001), Pages 145-148, Volume 103, No. 1-2	
	2.	ZHOU, L. et al., "Genomic organization and comparative sequence analysis of the mouse and human FRS2, FRS3 genes", Molecular Biology Reports, (March 2003), Pages 15-25, Volume 30, No. 1	
	3.	GOTOH, N. et al., "FRS2 family docking proteins with overlapping roles in activation of MAP kinase have distinct spatial-temporal patterns of expression of their transcripts", FEBS Letter, (April 2004), Pages 14-18, Volume 564	
	4.	RANZI, V. et al., "The Signalling Adapters Fibroblast Growth Factor Receptor Substrate 2 and 3 Are Activated by the Thyroid TRK Oncoproteins", Endocrinology, (March 2003), Pages 922-928, Volume 144, No. 3	
	5.	XU, H. et al., "Novel Recognition Motif on Fibroblast Growth Factor Receptor Mediates Direct Association and Activation of SNT Adapter Proteins", The Journal of Biological Chemistry, (July 1998), Pages 17987-17990, Volume 273, No. 27	
	6.	OSTENFELD, T. et al., "Recent Advances in Stem Cell Neurobiology", Adv Tech Stand Neurosurg, (2003), Pages 3-89, Volume 28	
	7.	PEVNY, L. and RAO, M.S., "The stem-cell menagerie", Trends in Neuroscience, July 2003, Pages 351-359, Volume 26, Issue 7	
	8.	KONDO, M. et al., "BIOLOGY OF HEMATOPOIETIC STEM CELLS AND PROGENITORS: Implications for Clinical Application", Annual Review of Immunology, April 2003, Pages 759-806, Volume 21, No. 1	
	9.	AHMAD, I. et al., "Neural stem cells in the mammalian eye: types and regulation", Seminars in Cell and Development Biology, February 2004, Pages 53-62, Volume 15, Issue 1	
	10.	CHARGE, S.B.P. and M.A. RUDNICKI, "Cellular and Molecular Regulation of Muscle Regeneration", Physiological Reviews, January 2004, Pages 209-238, Volume 84, Issue 1	

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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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	11.	BELTRAMI, A.P. et al., "Adult Cardiac Stem Cells are Multipotent and Support Myocardial Regeneration", Cell, 19 September 2003, Pages 763-776, Volume 114, Issue 6	
	12.	TOMA, J.G. et al., "Isolation of multipotent adult stem cells from the dermis of mammalian skin", Nature Cell Biology, September 2001, Pages 778-784, Volume 3, No. 9	
	13.	HAMA, J. et al., "SNT-1/FRS2a physically interacts with Laloo and mediates mesoderm induction by fibroblast growth factor", Mechanisms of Development, December 2001, Pages 195-204, Volume 109, Issue 2	
	14.	KUSAKABE, M. et al., "Xenopus FRS2 is involved in early embryogenesis in cooperation with the Src family kinase Laloo", EMBO Reports, 15 August 2001, Pages 727-735, Volume 2, Issue 8	
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	16.	ORTEGA, S. et al., "Neuronal Defects and Delayed Wound Healing in Mice Lacking Fibroblast Growth Factor 2", Proceedings of the National Academy of Sciences of the United States of America, 12 May 1998, Pages 5672-5677, Volume 95, Issue 10	
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	18.	VACCARINO, F.M. et al., "Changes in Cerebral Cortex Size are Governed by Fibroblast Growth Factor During Embryogenesis", Nature Neuroscience, March 1999, Pages 246-253, Volume 2, No. 3	
	19.	HADARI, Y.R. et al., "Binding of Shp2 Tyrosine Phosphatase to FRS-2 is Essential for Fibroblast Growth Factor-Induced PC12 Cell Differentiation", Molecular and Cellular Biology, July 1998, Pages 3966-3973, Volume 18, Issue 7	
	20.	MEAKIN, S.O. et al., "The Signalling Adapter Protein FRS-2 Competes with Shc for binding to TrkA: A Model for Discriminating Proliferation and Differentiation", The Journal of Biological Chemistry, 2 April 1999, Pages 9861-9870, Volume 274, Issue 14	

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		Filing Date	September 1, 2006
		First Named Inventor	Susan Oriole Meakin
		Art Unit	not yet assigned
		Examiner Name	not yet assigned
Sheet 3	of 6	Attorney Docket Number	50217/005001

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	21.	EASTON, J.B. et al., "Brain-derived Neurotrophic Factor Induces Phosphorylation of Fibroblast Growth Factor Receptor Substrate", The Journal of Biological Chemistry, 16 April 1999, Pages 11321-11327, Volume 274, Issue 16	
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	29.	ABERCROMBIE, M., "Estimation of Nuclear Population from Microtome Sections", The Anatomical Record, February 1946, Pages 239-247, Volume 94, Issue 2	
	30.	BERG, J.S. and FAREL, P.B., "Developmental Regulation of Sensory Neuron Number and Limb Innervation in the Mouse", Developmental Brain Research (incorporated into Brain Research), 29 December 2000, Pages 21-30, Volume 125, Issue 1-2	

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	First Named Inventor		Susan Oriole Meakin
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	31.	SERBEDZIJA, G.N. and MCMAHON, A.P., "Analysis of Neural Crest Cell Migration in Splotch Mice using a Neural Crest-Specific LacZ Reporter", Developmental Biology, 15 May 1997, Pages 139-147, Volume 185, Issue 2	
	32.	NIETO, M.A., "The early steps of Neural Crest Development", Mechanisms of Development, July 2001, Pages 27-35, Volume 105, Issue 1-2	
	33.	KNECHT, A.K. and BRONNER-FRASER, M., "Induction of the Neural Crest: A multigene Process", Nature Reviews Genetics, June 2002, Pages 453-461, Volume 3, Issue 6	
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	36.	AOKI, Y. et al., "Sox10 regulates the development of neural crest-derived melanocytes in Xenopus", Developmental Biology, 1 July 2003, Pages 19-33, Volume 259, Issue 1	
	37.	MURPHY, M. et al., "FGF2 regulates proliferation of neural crest cells with subsequent neuronal differentiation regulated by LIF or related factors", Development, December 1994, Pages 3519-3528, Volume 120, Issue 12	
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	39.	SIEBER-BLUM, M., "Growth Factor Synergism and Antagonism in Early Neural Crest Development", Biochemistry and Cell Biology, December 1998, Pages 1039-1050, Volume 76, No. 6	
	40.	MA, Q. et al., "NEUROGENIN 1 and NEUROGENIN 2 control two distinct waves of neurogenesis in developing dorsal root ganglia", Genes and Development, 1 July 1999, Pages 1717-1728, Volume 13, Issue 13	

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	41.	FARINAS, I. et al., "Characterization of Neurotrophin and Trk Receptor Functions In Developing Sensory Ganglia: Direct NT-3 Activation of TrkB Neurons In Vivo", Neuron, August 1998, Pages 325-334, Volume 21, Issue 2	
	42.	MU, X. et al., "Neurotrophin Receptor Genes are Expressed in Distinct Patterns in Developing Dorsal Root Ganglia", The Journal of Neuroscience, September 1993, Pages 4029-4041, Volume 13, Issue 9	
	43.	GERDES, J. et al., "Production of a Mouse Monoclonal Antibody Reactive with a Human Nuclear Antigen Associated with Cell Proliferation", Int. Journal of Cancer, 15 January 1983, Pages 13-20, Volume 31, Issue 1	
	44.	GERDES, J. et al., "Cell Cycle Analysis of a Cell-Proliferation-Associated Human Nuclear Antigen Defined by a Monoclonal Antibody Ki67", The Journal of Immunology, October 1984, Pages 1710-1715, Volume 133, Issue 4	
	45.	VANRAAY, T.J. et al., "Frizzled 9 is expressed in neural precursor cells in the developing neural tube", Development Genes and Evolution, September 2001, Pages 453-457, Volume 211, Nos. 8-9	
	46.	MARTI, E. and BOVOLENTA, P., "Sonic Hedgehog in CNS Development: One Signal, Multiple Outputs", Trends in Neurosciences, 1 February 2002, Pages 89-96, Volume 25, Issue 2	
	47.	FEDTSOVA, N. et al., "Sonic Hedgehog Regulates the Position of the Trigeminal Ganglia", Developmental Biology, 15 September 2003, Pages 456-469, Volume 261, Issue 2	
	48.	ZHANG, J.-M. et al., "Mitogenic and Anti-Proliferative Signals for Neural Crest Cells and the Neurogenic Action of TGF- β 1", Developmental Dynamics, March 1997, Pages 375-386, Volume 208, Issue 3	
	49.	OTA, M. and K. ITO, "Induction of Neurogenin-1 Expression by Sonic Hedgehog: Its role in Development of Trigeminal Sensory Neurons", Developmental Dynamics, August 2003, Pages 544-551, Volume 227, Issue 4	
	50.	PEREZ, S.E. et al., "Early Specification of Sensory Neuron Fate Revealed by Expression and Function of Neurogenins in the Chick Embryo", Development, April 1999, Pages 1715-1728, Volume 126, Issue 8	

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	51.	RING, C. et al., "Expression Pattern of Collagen IX and Potential Role in the Segmentation of the Peripheral Nervous System", Developmental Biology, 25 November 1996, Pages 41-53, Volume 180, Issue 1	
	52.	PERISSINOTTO, D. et al., "Avian Neural Crest Cell Migration is Diversely Regulated by the Two Major Hyaluronan-binding Proteoglycans PG-M/Versican and Aggrecan", Development, July 2000, Pages 2823-2842, Volume 127, Issue 13	
	53.	PERRIS, R. and PERISSINOTTO, D., "Role of the Extracellular Matrix During Neural Crest Cell Migration", Mechanisms of Development, 1 July 2000, Pages 3-21, Volume 95, Issues 1-2	
	54.	GRITLI-LINDE, A. et al., "The Whereabouts of a Morphogen: Direct Evidence for Short- and Graded Long-Range Activity of Hedgehog Signaling Peptides", Developmental Biology, 15 August 2001, Pages 364-386, Volume 236, Issue 2	
	55.	GRITLI-LINDE, A. et al., "Shh Signaling within the Dental Epithelium is Necessary for Cell Proliferation, Growth and Polarization", Development, 1 December 2002, Pages 5323-5337, Volume 129, Issue 23	

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